

REMARKS

Kindly enter this Preliminary Amendment before first action on the merits. By this Preliminary Amendment, Applicants have amended the specification to correct minor typographical errors. These amendments introduce no new matter.

Respectfully submitted,

Anthony J. GOUNALIS

By: Randy J. Pritzker
Randy J. Pritzker, Reg. 35,986.
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2211
Telephone: (617) 720-3500

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Date: March 1, 2004

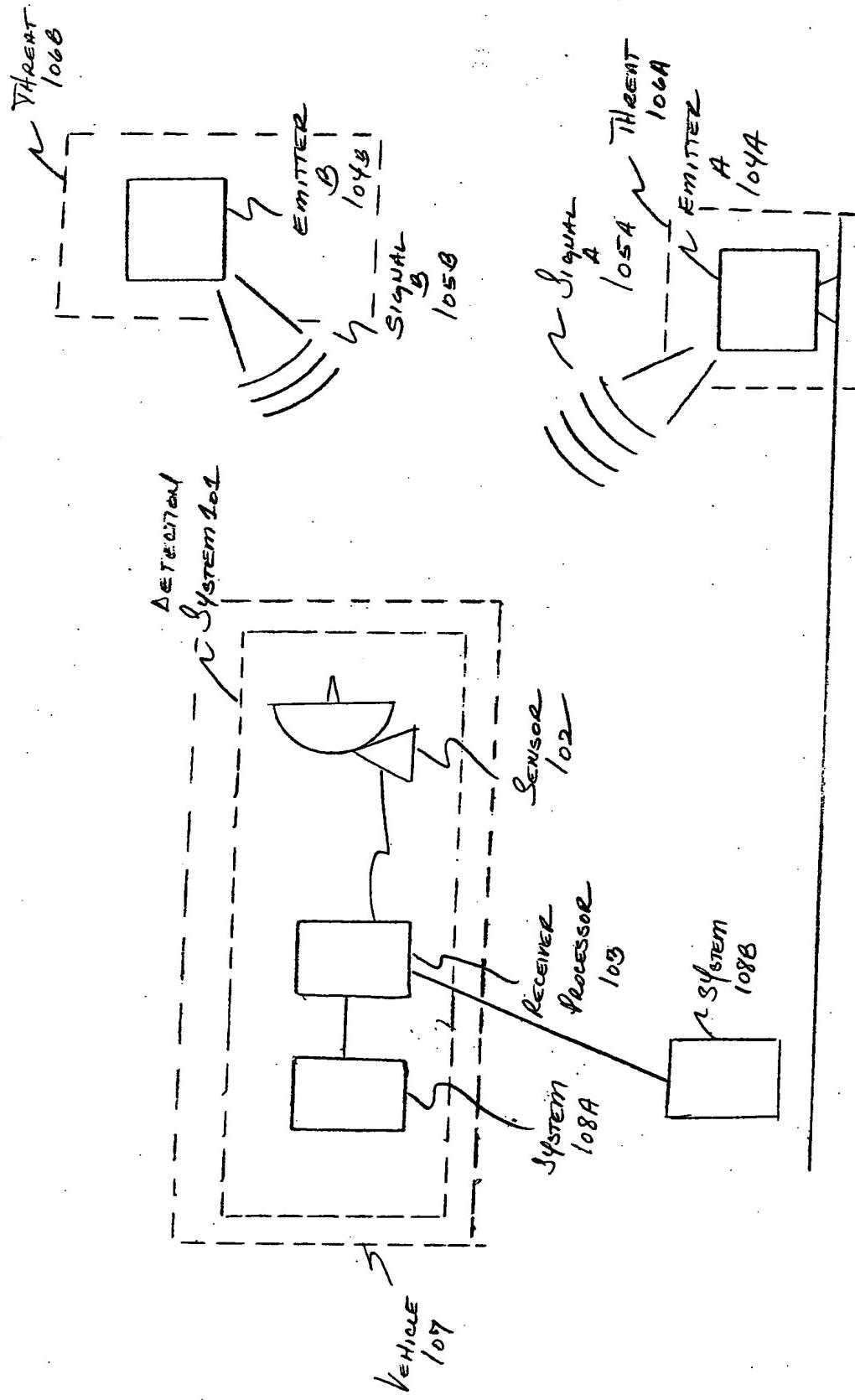


Figure 1

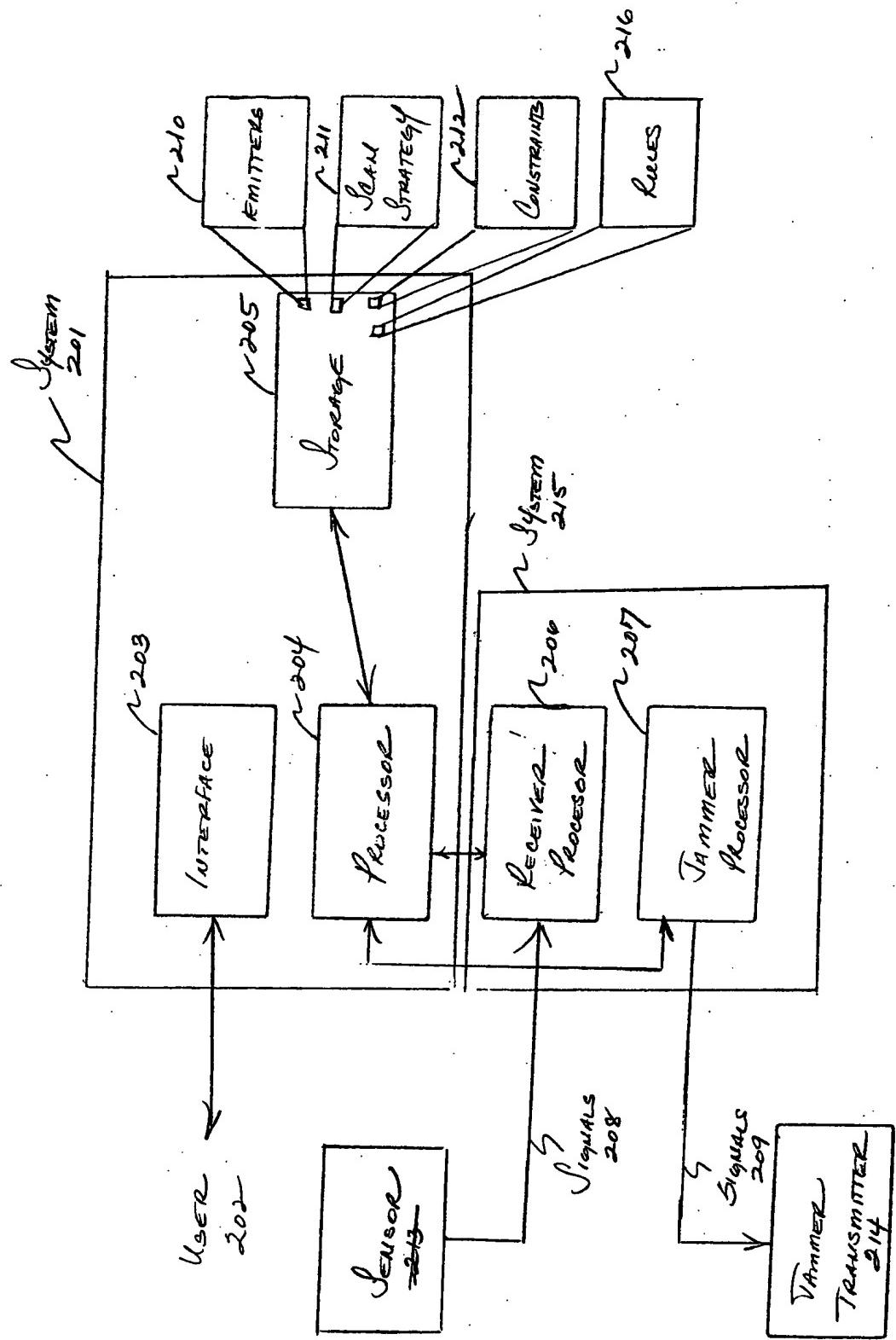


Figure 2

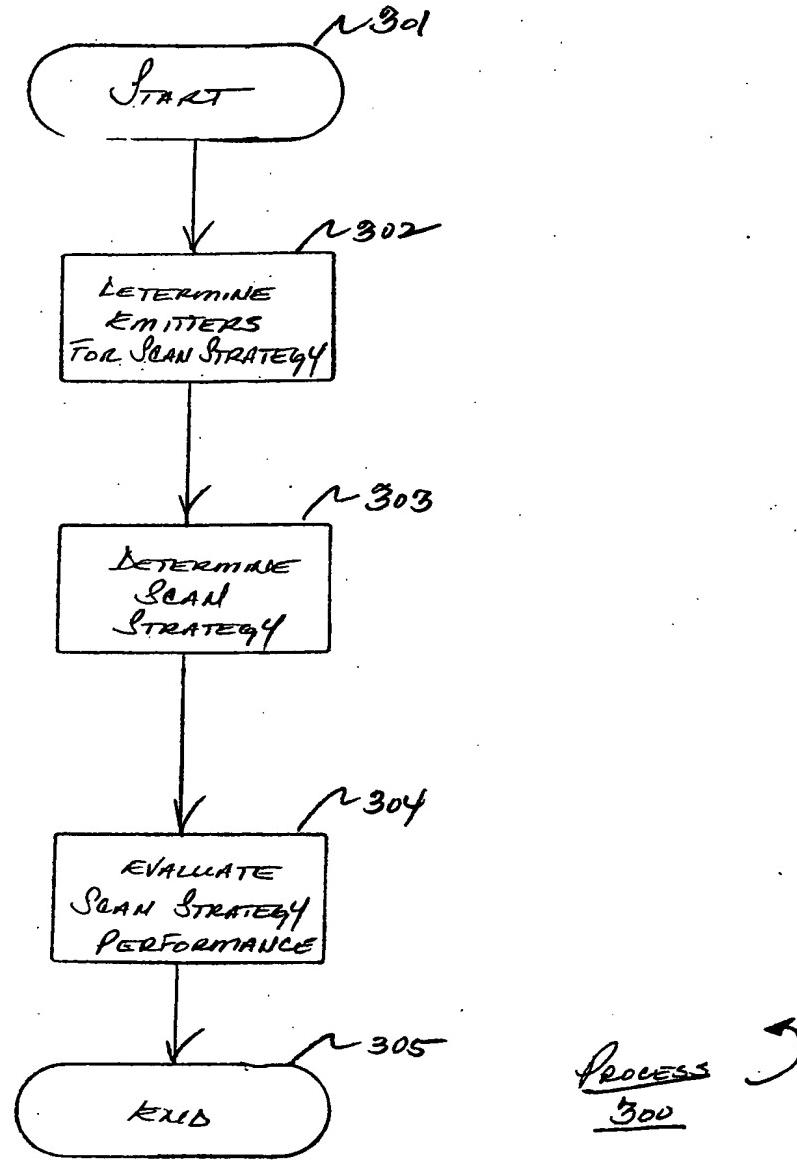
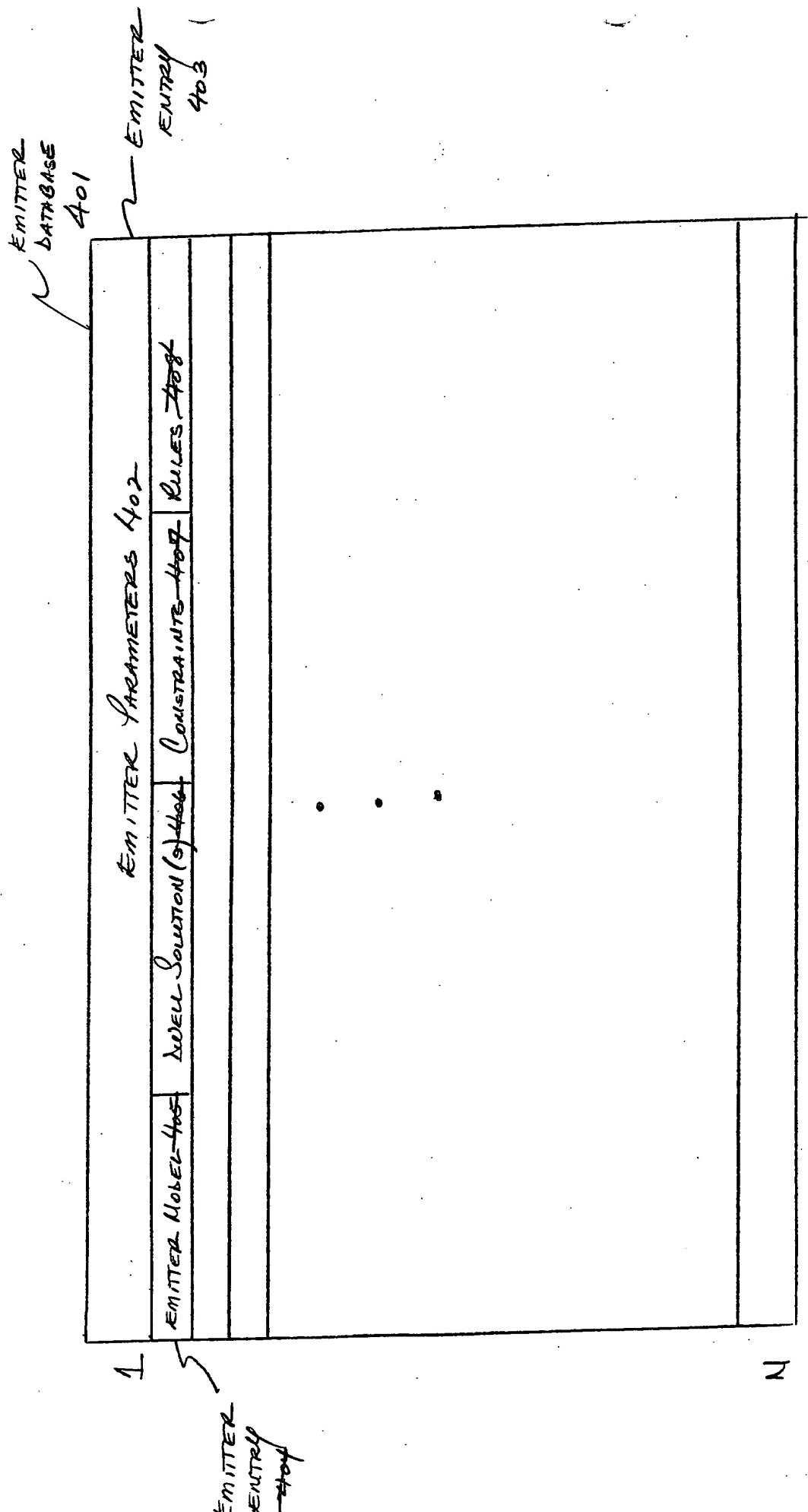


Figure 3



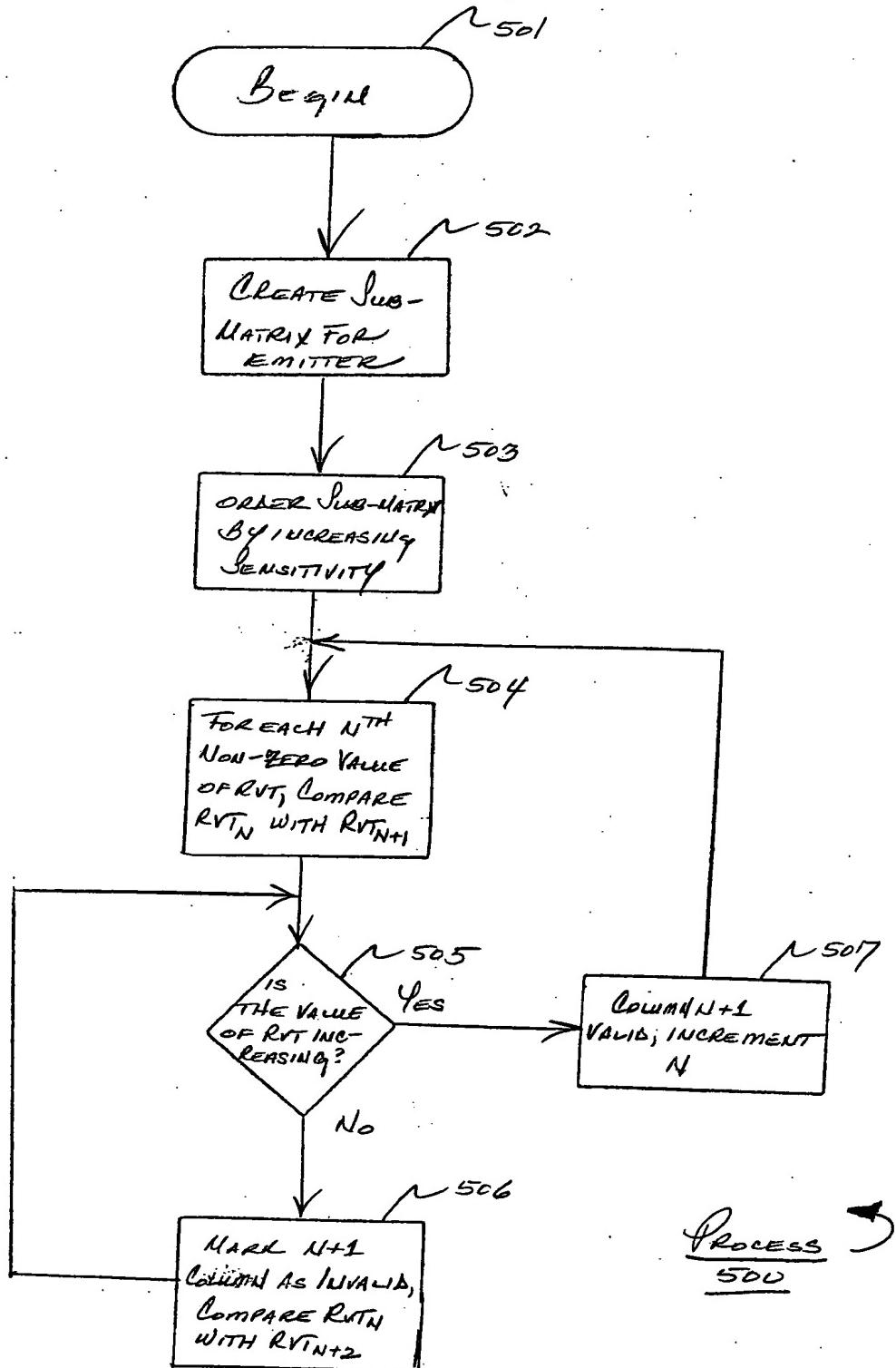


Figure 5

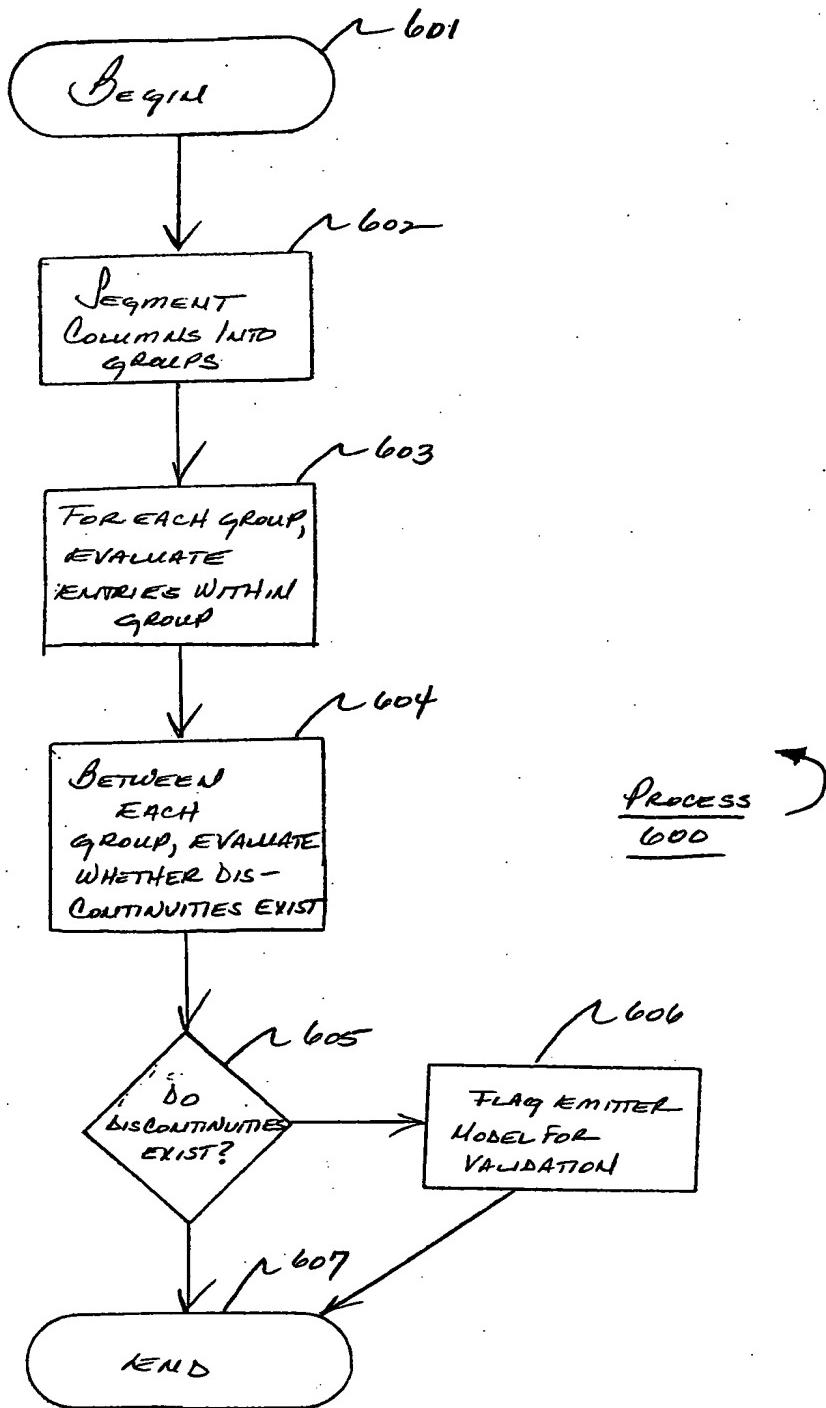
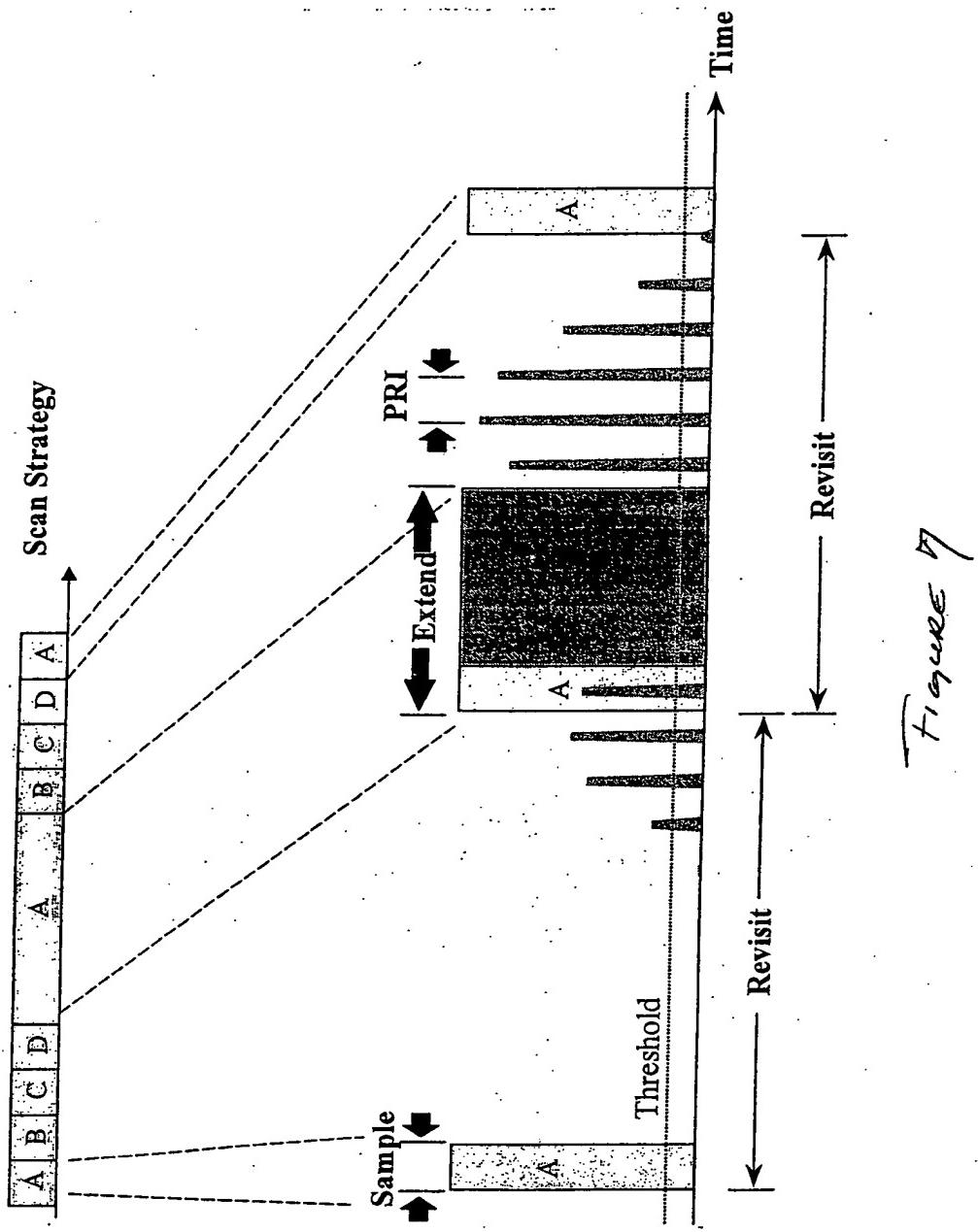
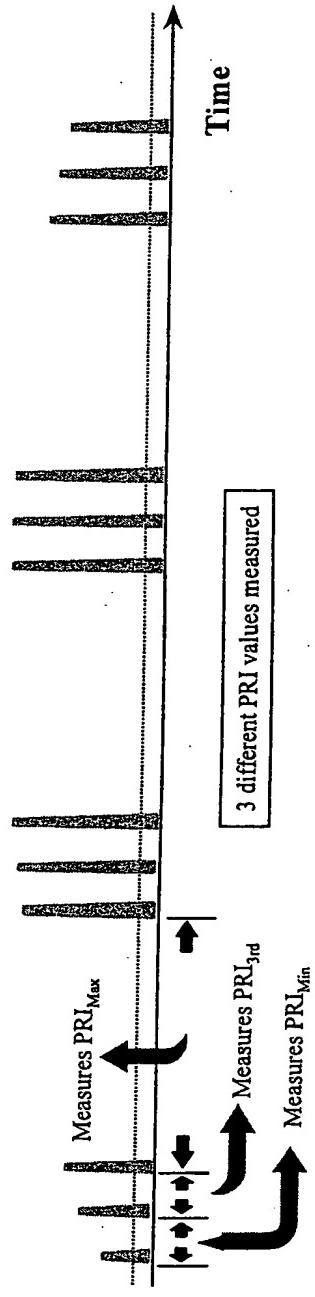


Figure 6



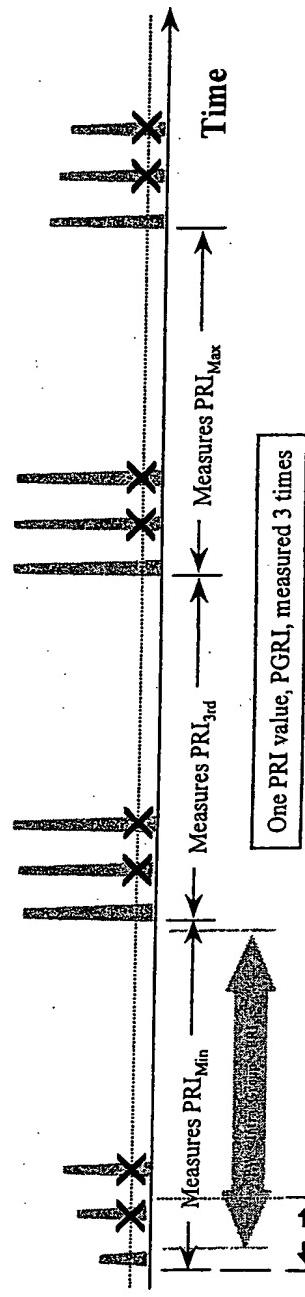
No Pulse Grouping Logic:



$T_{\text{square}} = \delta t$

3 different PRI values measured

With Pulse Grouping Logic:



$T_{\text{square}} = \delta t$

One PRI value, PGRJ, measured 3 times

Selected Intra-group Interval

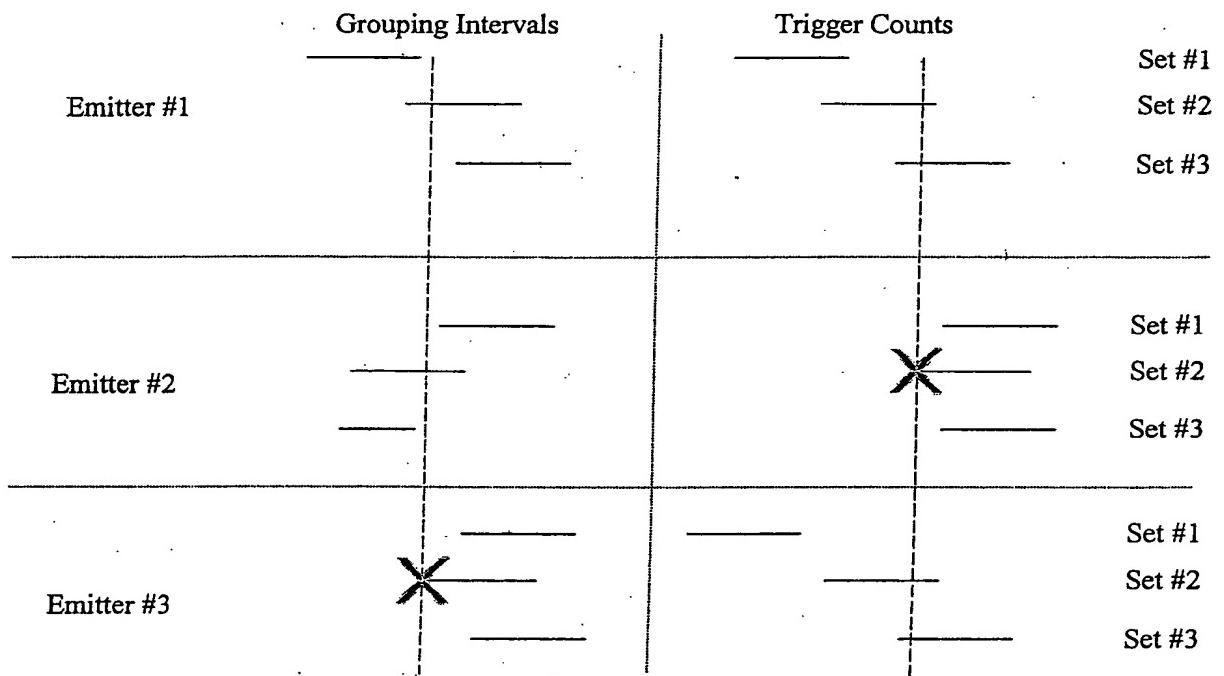
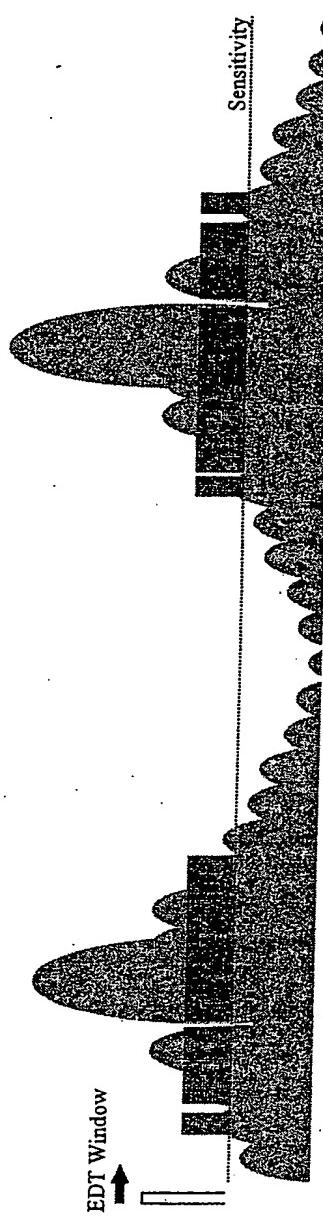


Figure 9

Figure
10A



Discrete Illuminations (TIBS)

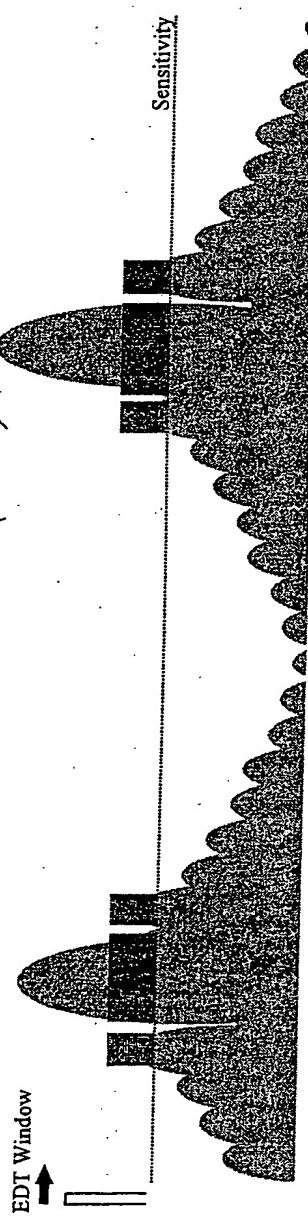
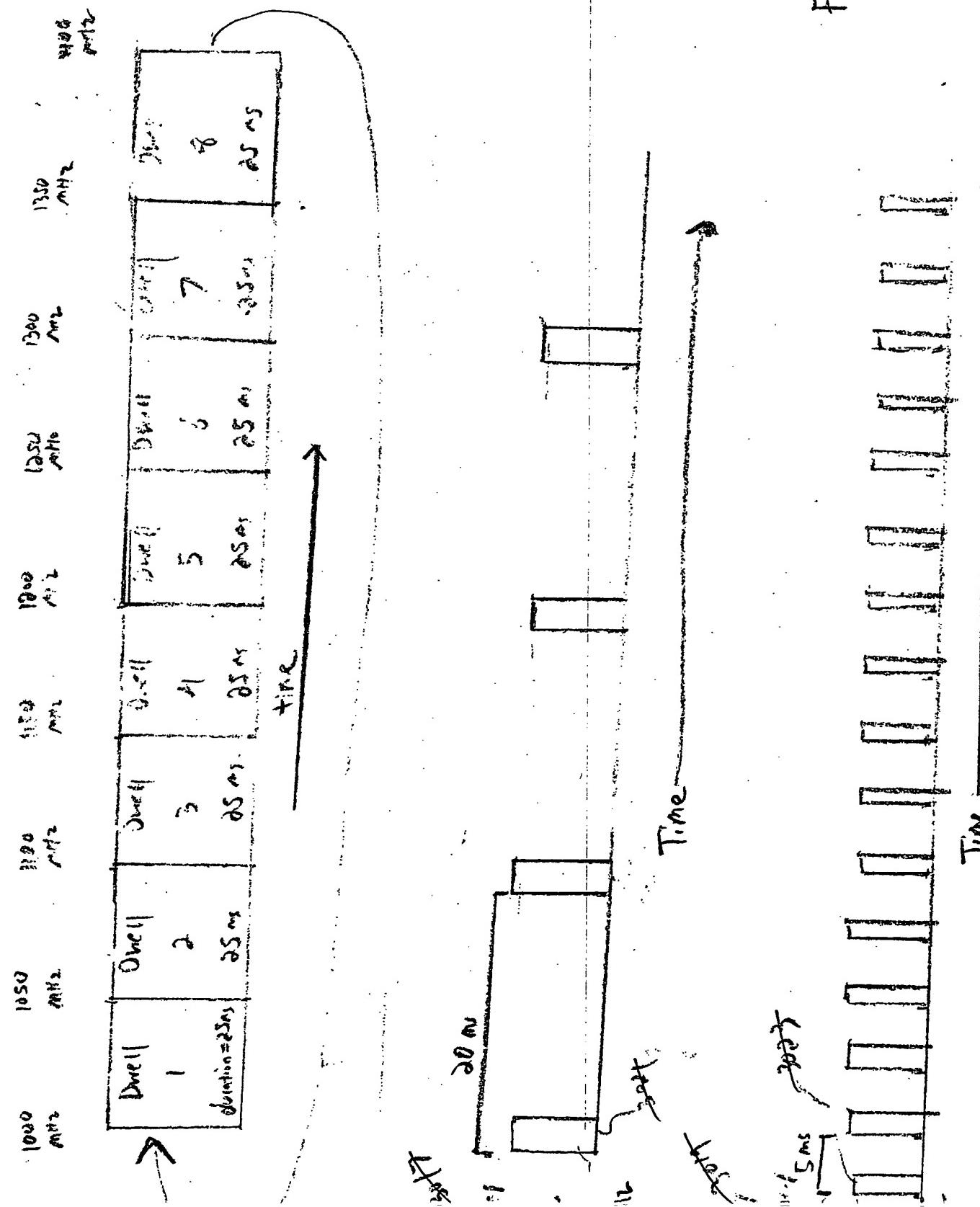


Figure
10B

Figure 11



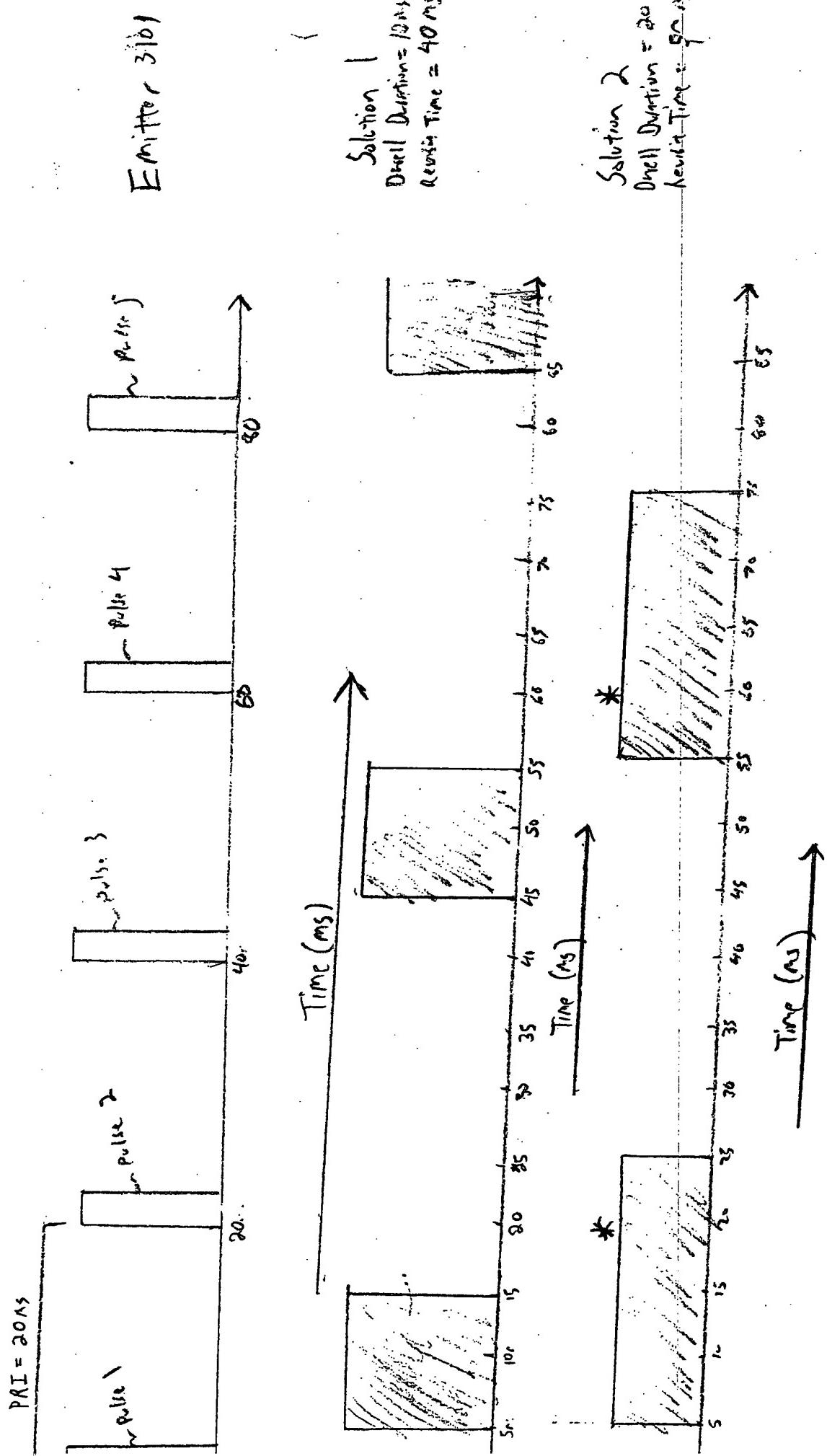


Figure 12

Figure B

4000

Emitter Name	Detuning (MHz)	RF Min (MHz)	RF Max (MHz)	MDT (ms)
E1	100 ns	650 ns	1000	1300 3
E2	180 ns	780 ns	1220	1350 5
E3	110 ns	330 ns	1510	1410 2
E4	130 ns	390 ns	1730	1860 4

Dwell 1								
DD _{max}	5	RV _{T_{min}}	100					
Cost = $\frac{5}{100} = .05$								

Solution 1

DD _{max}	Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9
3	3	3	3	3	3	3	3	5	5
RT _{min}	650	650	650	650	650	650	650	650	650
Cost	cost	cost	cost	cost	cost	cost	cost	cost	cost

$3/650 + 3/650 + 3/650 + 3/650 + 3/650 + 3/650 + 3/650 + 5/650 = \frac{31}{650} \approx .048$

Solution 2

Figure 161A

1510	Dwell 1	$DD_{max} = 4 \text{ ms}$
1540	Dwell 2	$DD_{max} = 2 \text{ ms}$
1570	Dwell 3	$DD_{max} = 2 \text{ ms}$
1600	Dwell 4	$DD_{max} = 2 \text{ ms}$
1630	Dwell 5	$DD_{max} = 2 \text{ ms}$
1660	Dwell 6	$DD_{max} = 2 \text{ ms}$
1690	Dwell 7	$DD_{max} = 2 \text{ ms}$
1720	Dwell 8	$DD_{max} = 2 \text{ ms}$
1750	Dwell 9	$DD_{max} = 2 \text{ ms}$
1780	Dwell 10	$DD_{max} = 2 \text{ ms}$

$$\text{Cost} = \frac{4}{330} = .012$$

Solution 1

1510	1540	1570	1600	1630	1660	1690	1720	1750	1780
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9	Dwell 10
DD_{max}									
2	2	2	2	2	2	2	2	2	2
RVTrain									
330ms									
Cost									
$\frac{2}{330}$									

$$\text{Cost} = \frac{2}{330} + \frac{2}{330} = \frac{20}{330} = .06$$

Solution 2

Figure 141B

Figure 15

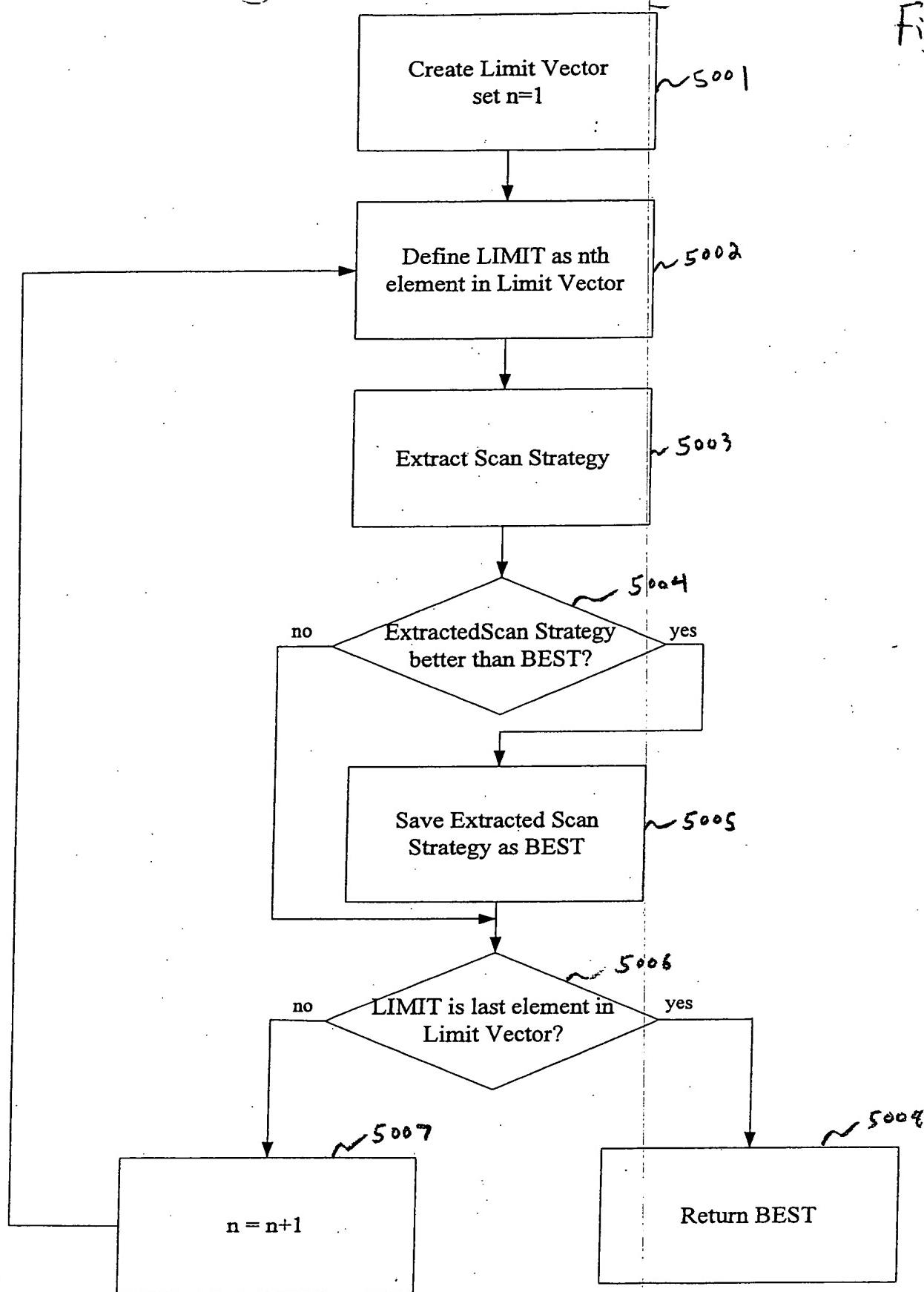
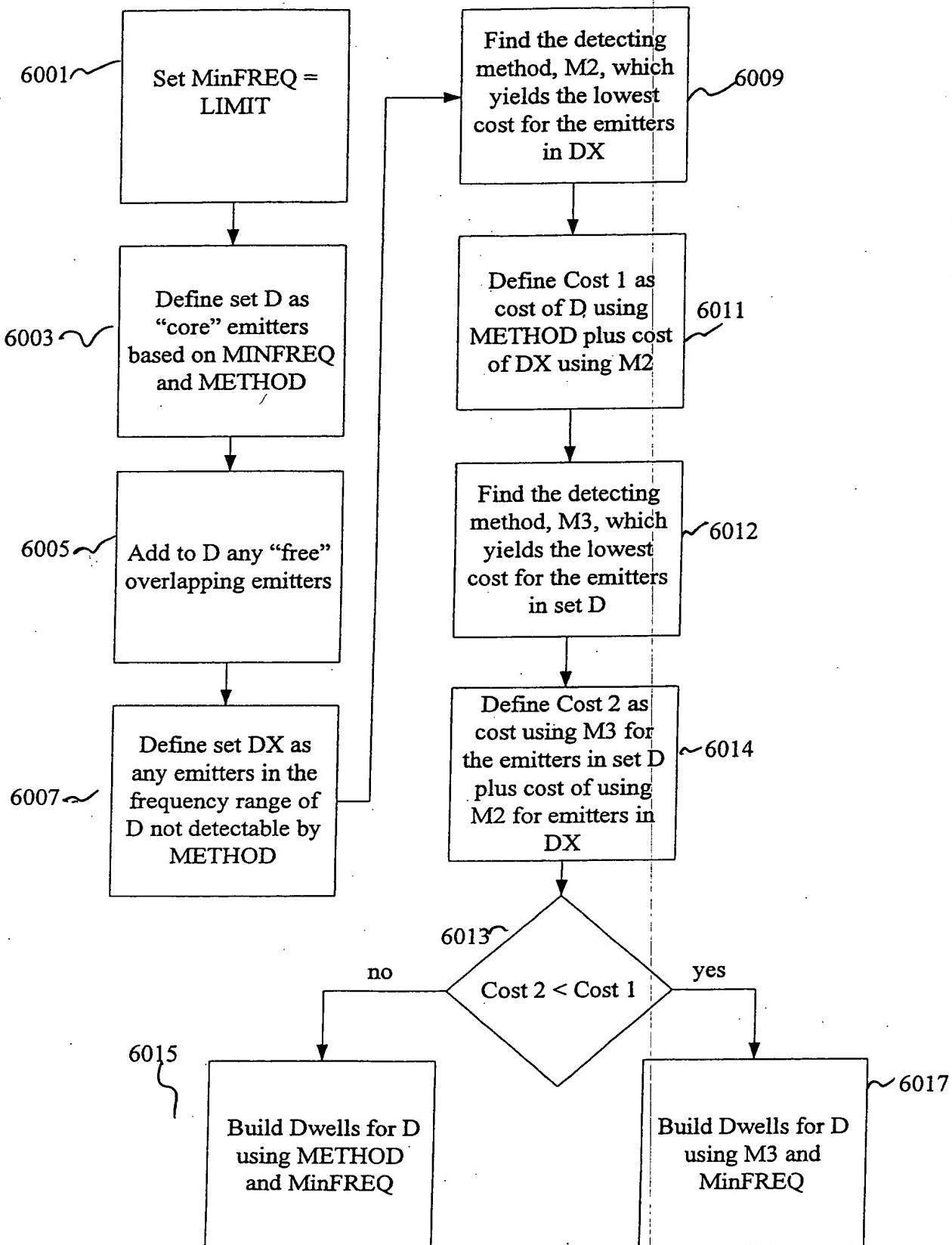


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

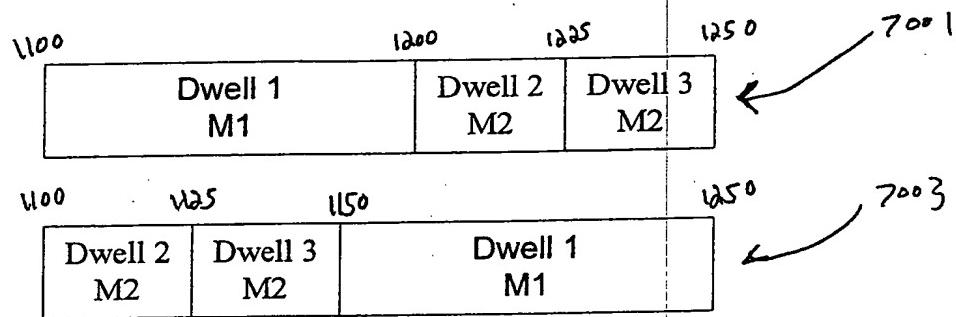


Figure 17

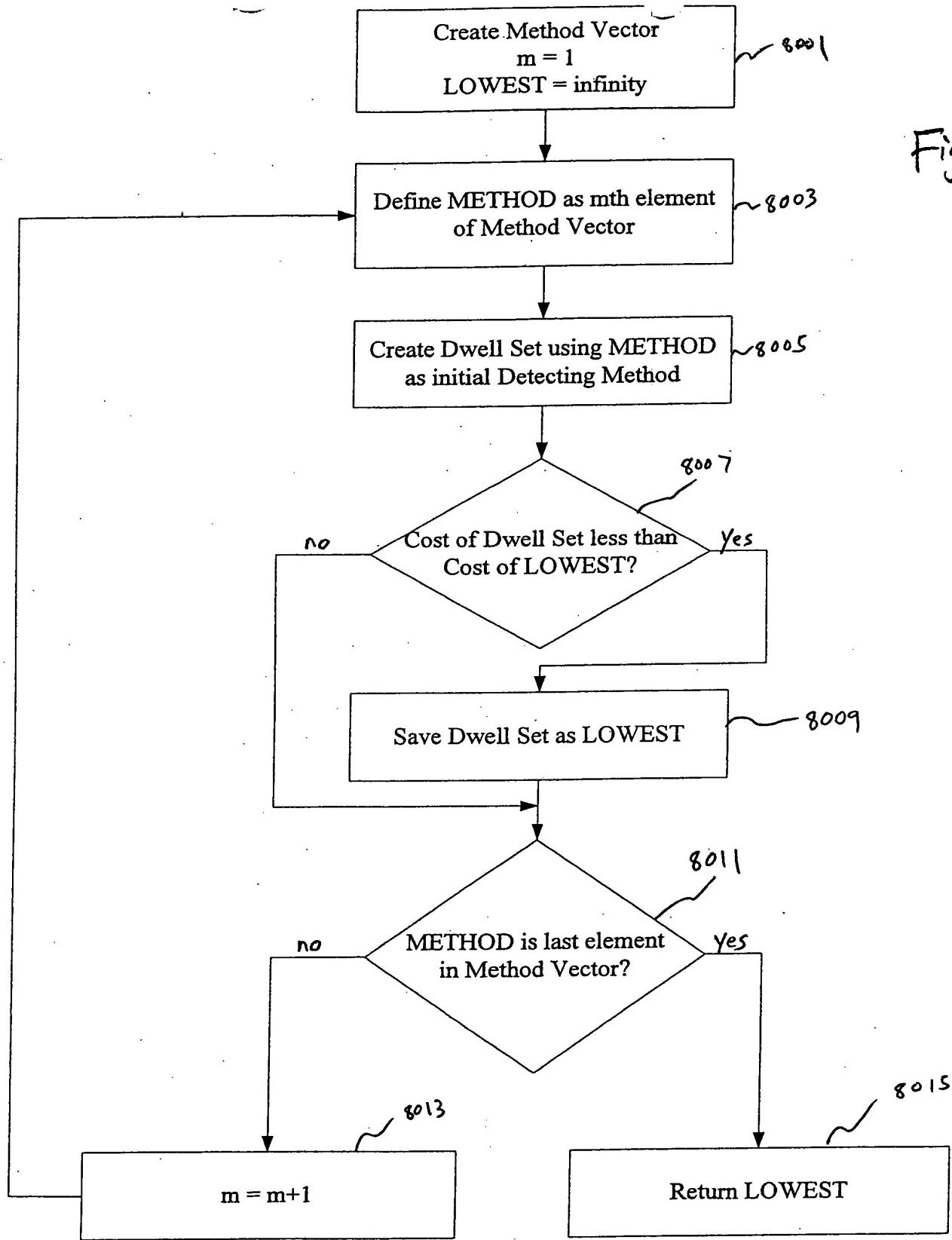


Figure 11

Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

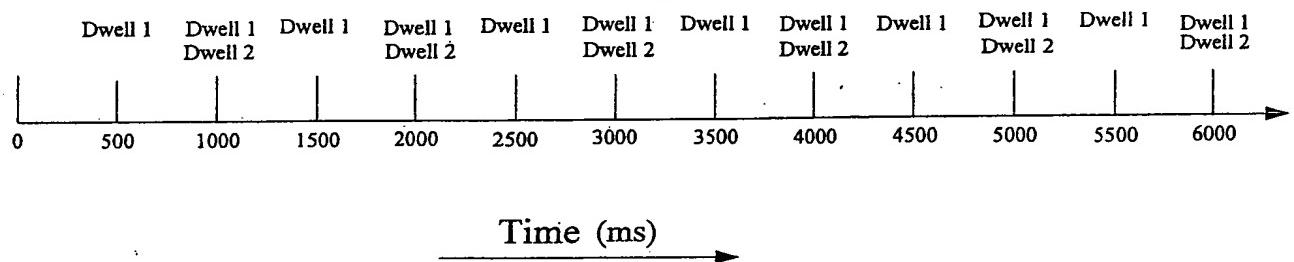


Figure 21

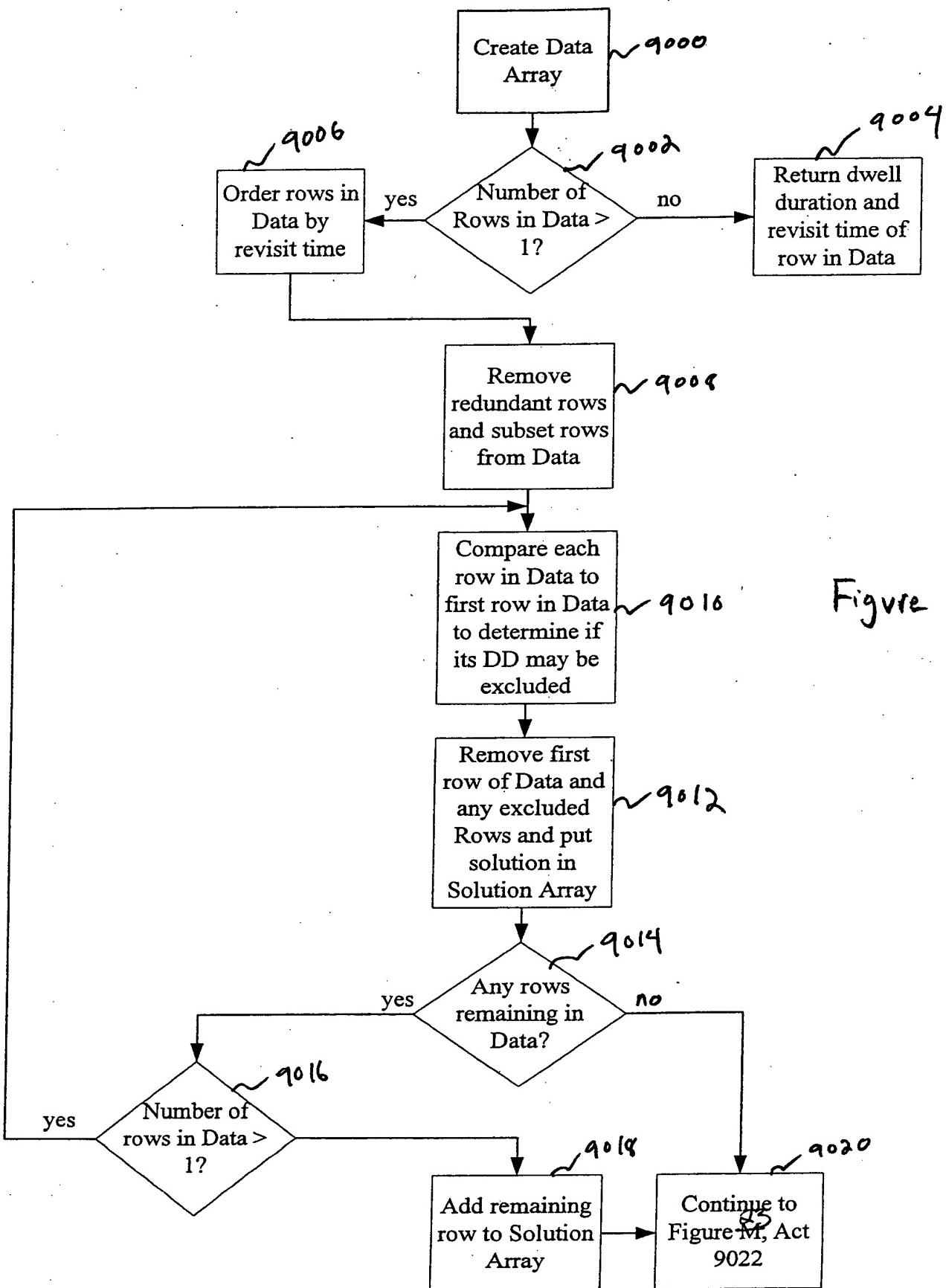


Figure 22

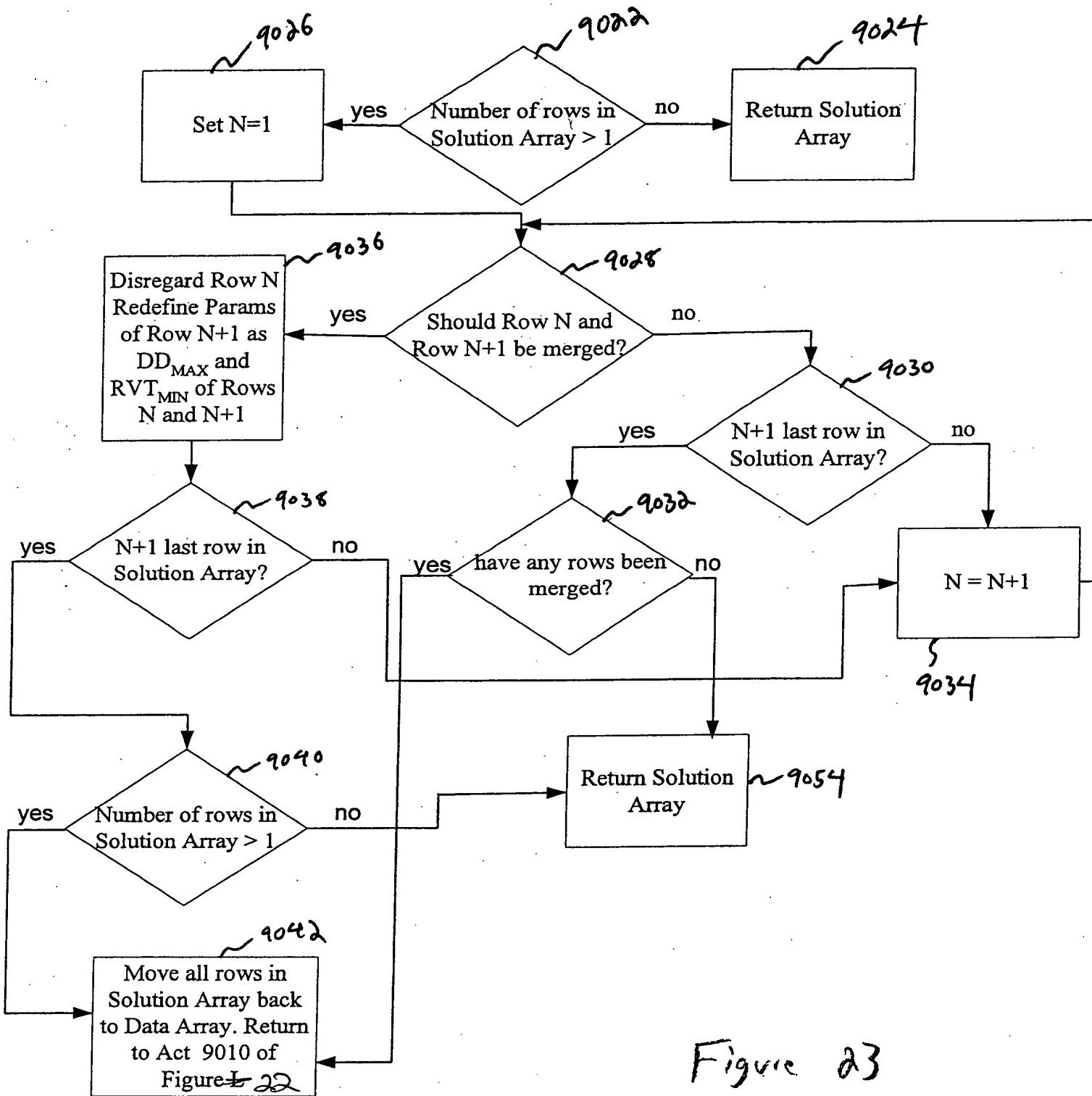


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

Figure 24B

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT
1	19	500
2	11	700

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

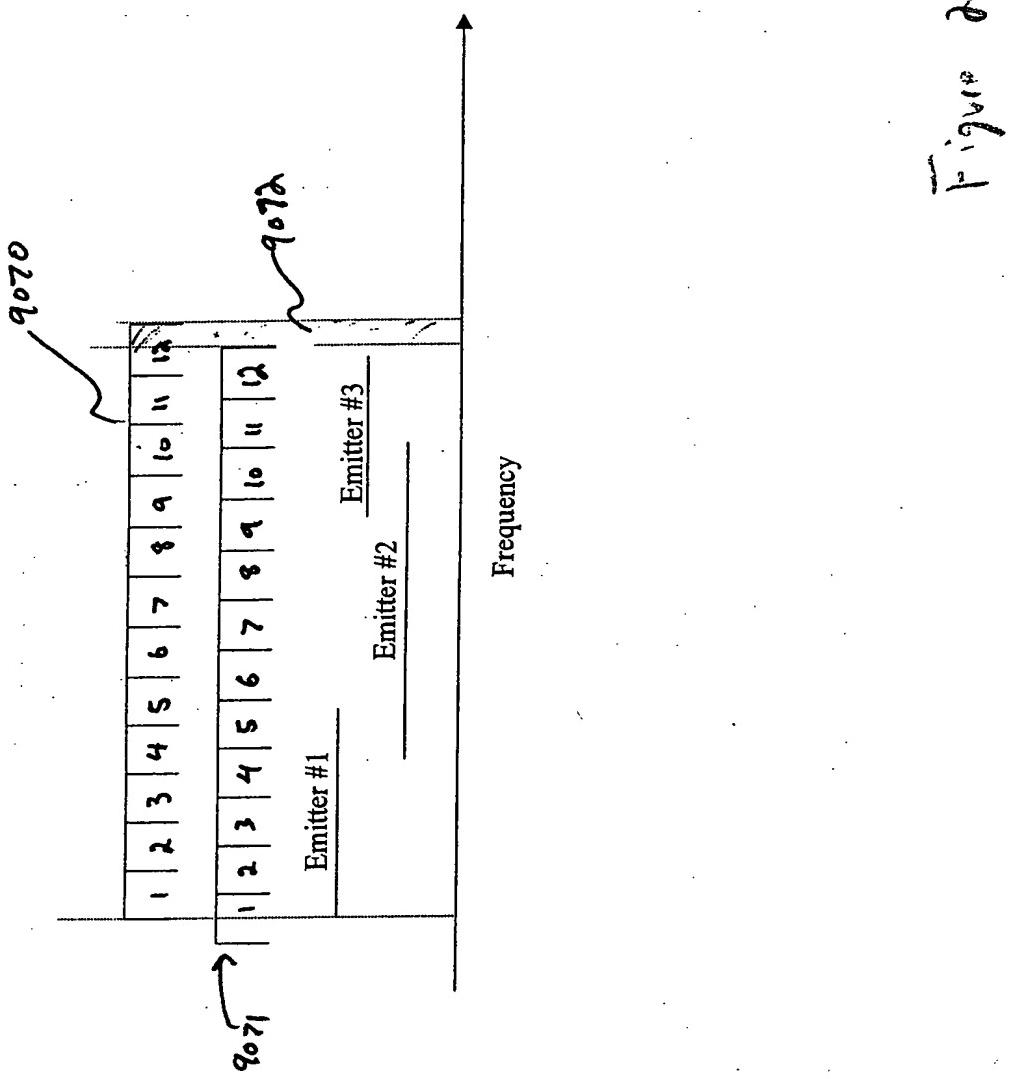
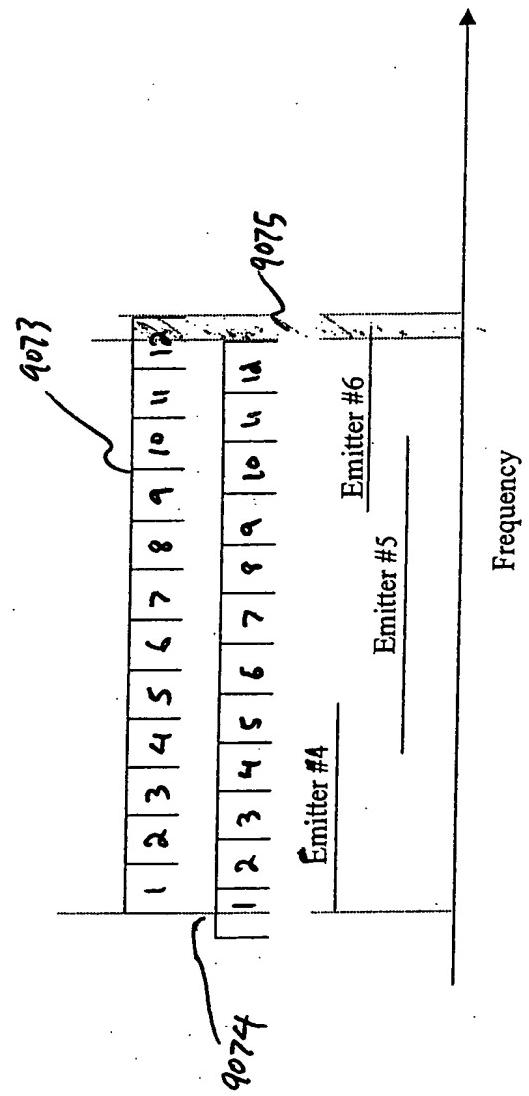


Figure 25

Figure 26



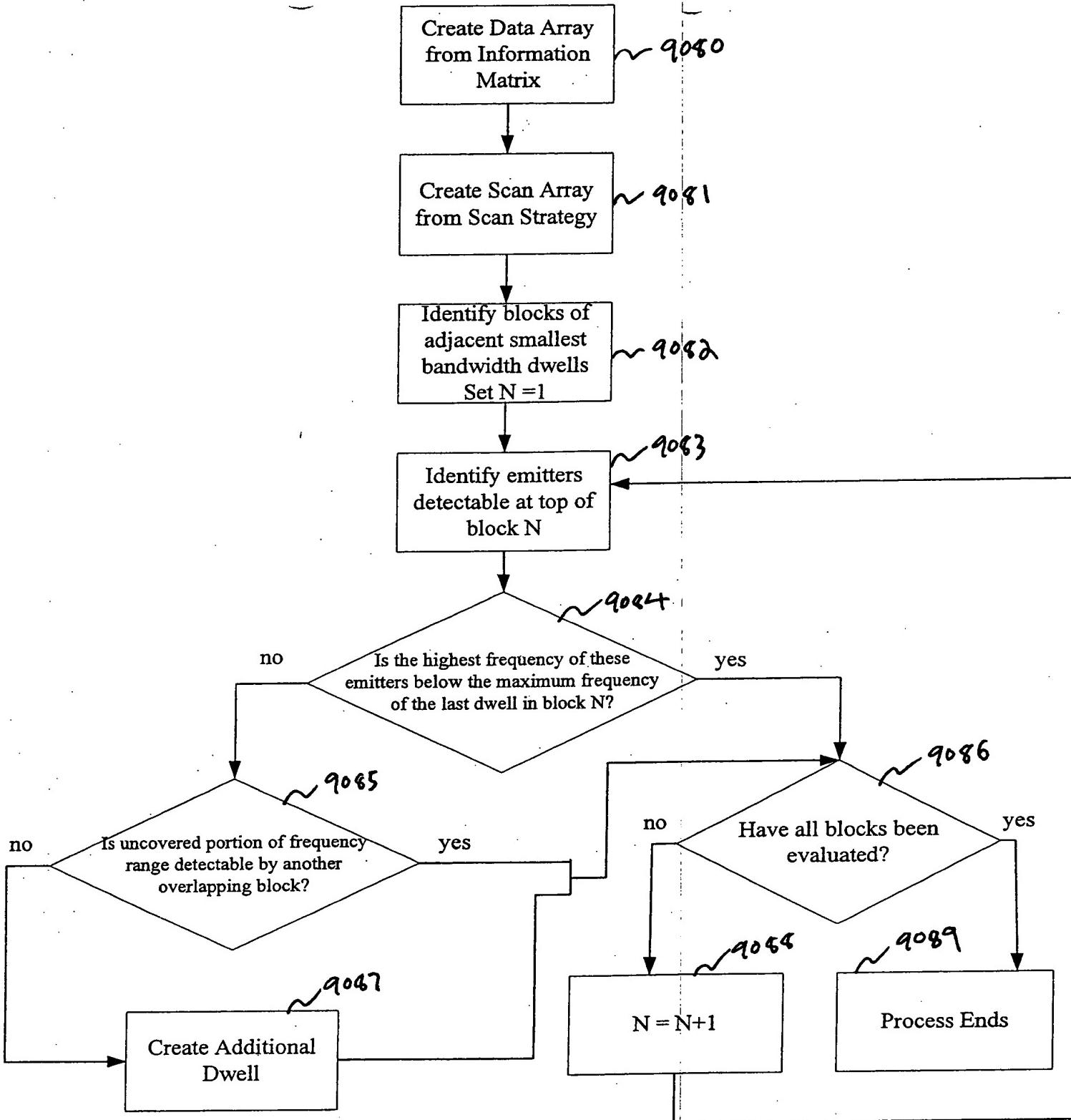


Figure 22

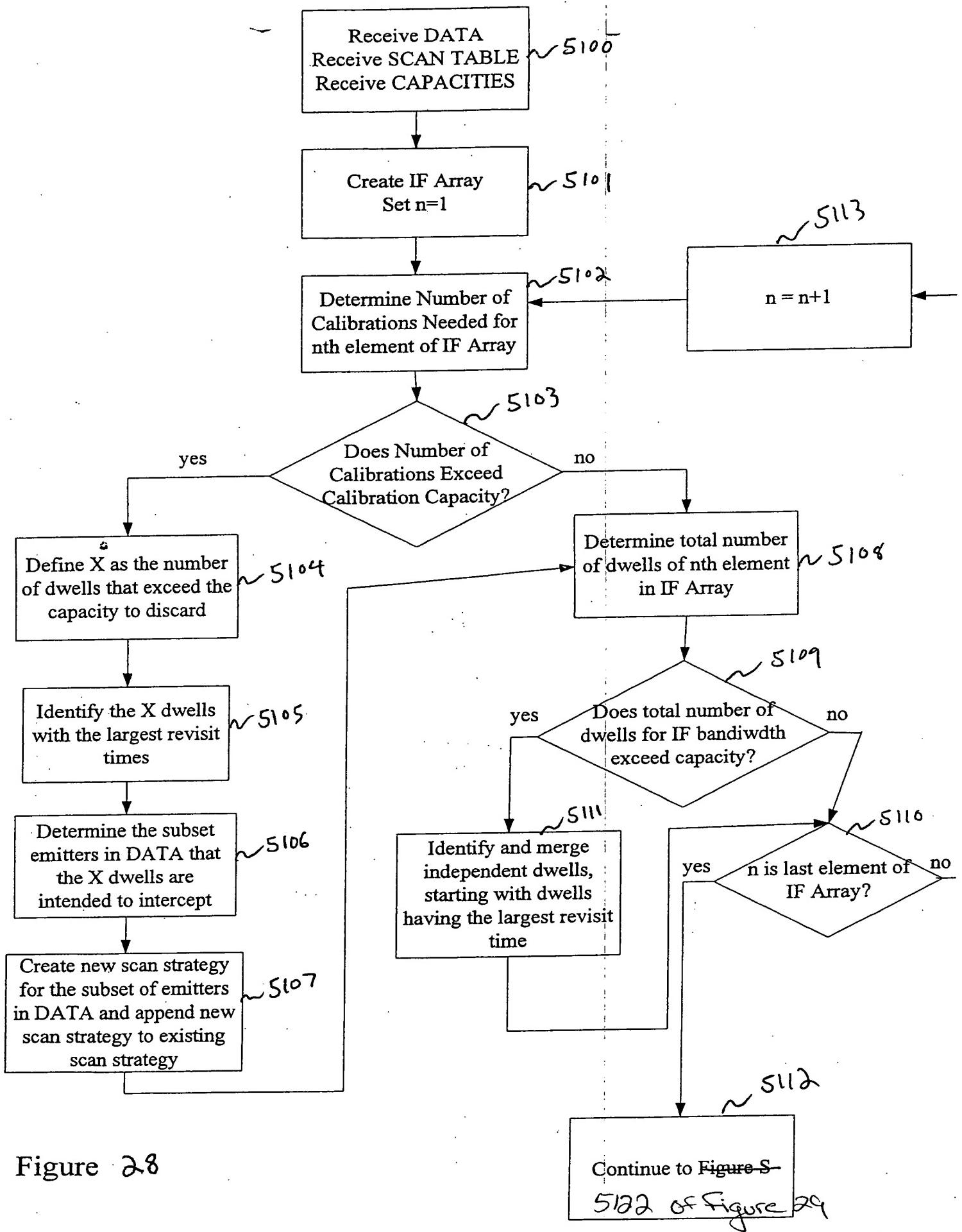


Figure 28

Continue to Figure S

5122 of Figure 29

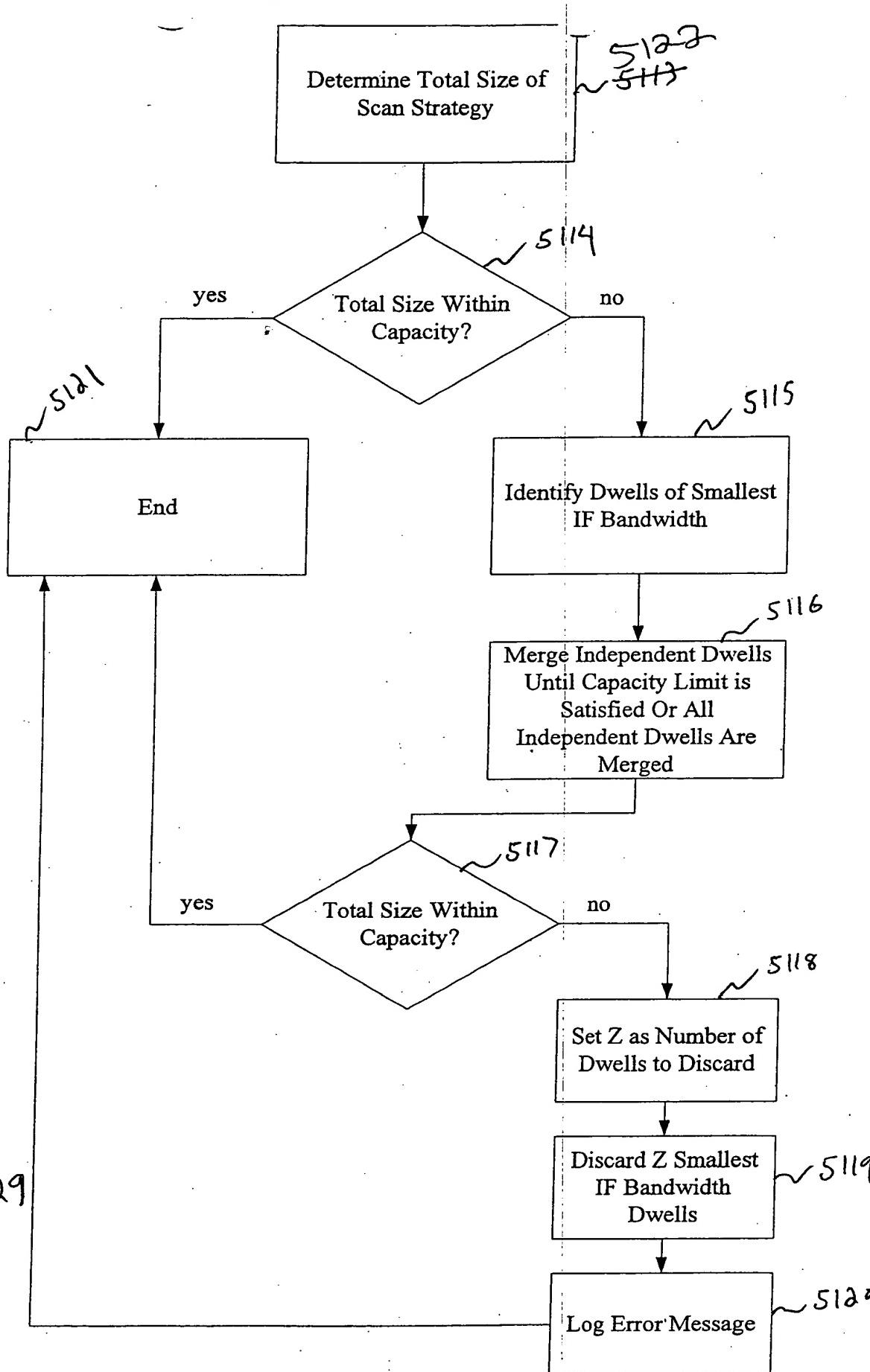


Figure 29

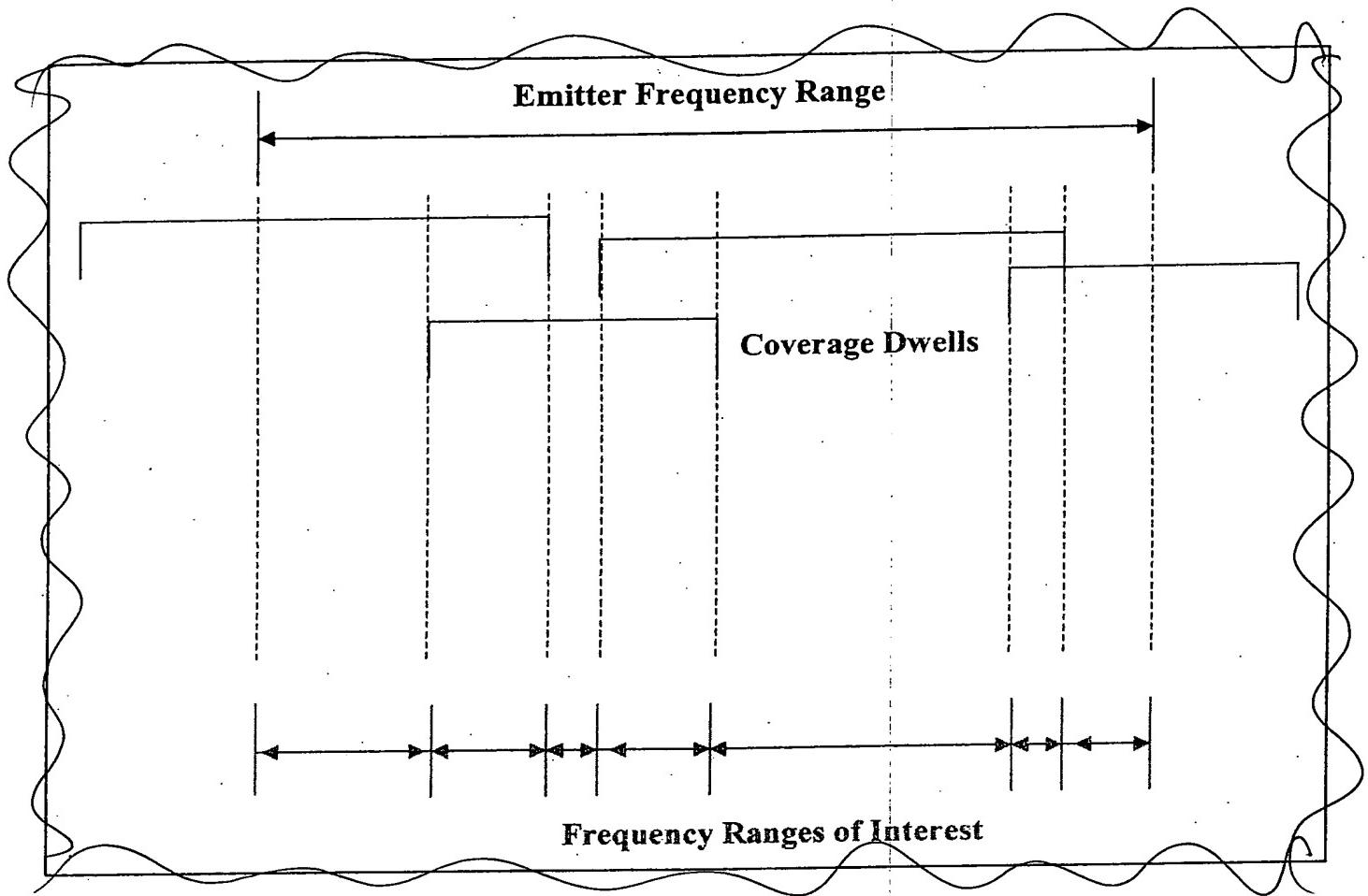


Figure 30

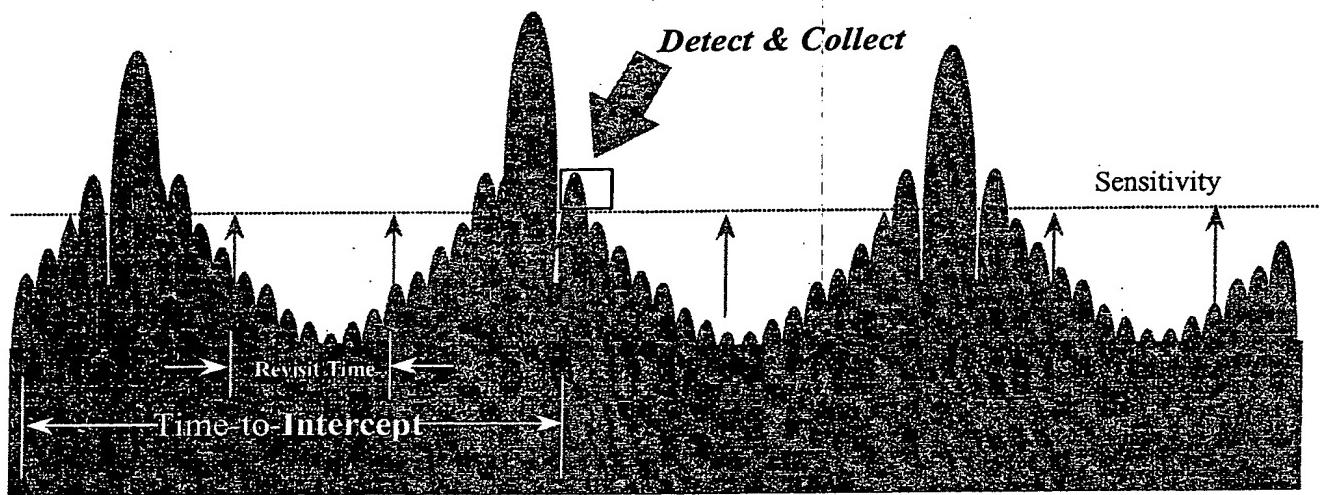


Figure 31

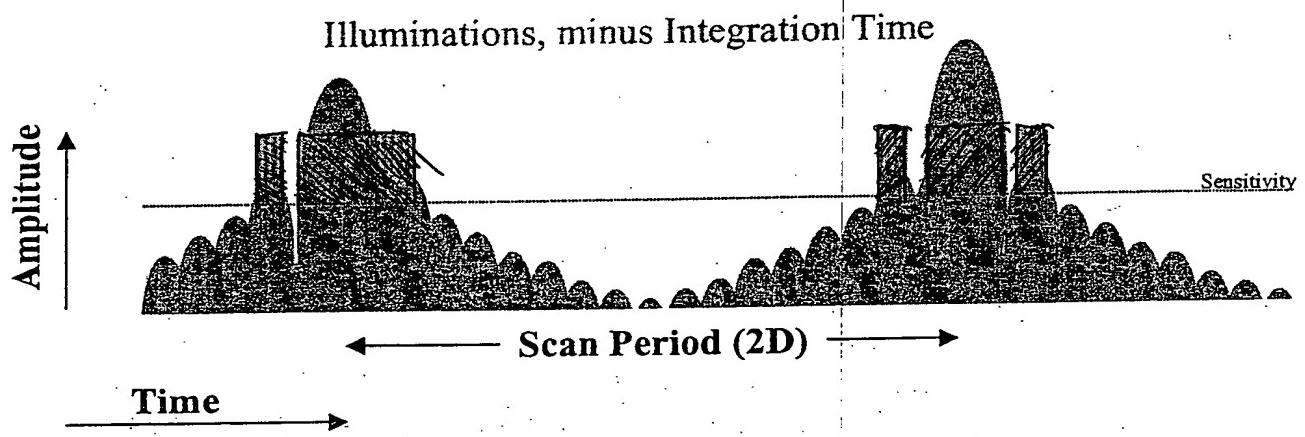


Figure 3d